## INDEX TO ROCK PRODUCTS, 1951, VOL. 54

A	
Accident prevention (see also Safety)  -Editorial, May  -Ackerman Concrete Products Co.—  Precast plank, September  Acme Materials Co.—Plant, December.  Activities of Producers During Kansas  Floods, September  Adding Beauty to Concrete Masonry  Construction, June  Advertising Builds Markets for Precast  Concrete Panels, October  Aggregates	47
Ackerman Concrete Products Co.—	
Acme Materials Co.—Plant, December	117
Activities of Producers During Kansas	83
Floods, September	89
Construction, June	182
Advertising Builds Markets for Frecast Concrete Panels, October Aggregates - Colloid chemistry, December - Concrete proportions, February - Cooling of mass concrete, October - Missouri river basin development, Oct - Reserves, January -	179
Aggregates -Coiloid chemistry, December	77
-Colloid chemistry, December	156
-Missouri river basin development, Oct.	94
Aggregates Industries Comment on	0.3
Current Problems, January	118
-Activities during Kansas floods, Sept.	89
Aggregates, lightweight	
-Missouri river basin development, OctReserves, January Aggregates Industries Comment on Current Problems, January Aggregates industry -Activities during Kannas floods, SeptActivities during Kannas fl	103
September	94
June	74
October	138
-Sintered clay, August	109
-Vermiculite, December -Vermiculite Institute meeting, July	96 86
Aggregates Play Major Part in Missouri	94
Aggregates specifications-Funda-	106
Agricultural chemistry, April	75
-Acme Material Co. plant, December	117
October November Sintered clay AugustVermiculite, December -Vermiculite institute meeting, July Aggregates Play Major Part in Missouri River Basin Development, October Aggregates specifications—Funda- mentals, April Agricultural limestone -Acme Material Co. plant, December, -Conservation program, March -Heavy-media separation from zinc, November	100
-Heavy-media separation from zinc. November -Merchandising Anchor Stone and Materials Co. April	64
Anchor Stone and Materials Co.	96
April Missouri Valley Limestone Co., April Needs for, April Physical and chemical characteris- tics, April	70
-Needs for, April	96
-Physical and chemical characteris- tics. April	102
-Purchases-Labor Relations Trends,	
-Spreading, March	100
Agricultural limestone associations—	103
Editorial, July Agricultural limestone industry—	
Agricultural Limestone Institute—6th	75
Agatone Producers Consider Ways	100
to Improve Business, March	00
Process Kiln Feed, August	158
-Gonell apparatus, May	88
Air Currents for Size Separation, Sept Air pollution—Dust measurement, Feb!	75
Air tools - Maintenance reduced by.	60
Airslides Large installation in cement	44
Alatex Construction Service, Inc.	
Alexite Engineering Division, Alexite	
American Aggregates Corp.—Land	38
Air tools—Maintenance reduced by, August Airglides—Large installation in cement plant, August plant, August Alatex Construction Service, Inc.—Perlite expansion olant, July Alexite Engineering Division, Alexite American, Agregates Corp.—Land rehabilitation, January American Agregates Corp.—Contributions to the Sand and Gravel Industry, January	10
tions to the Sand and Gravel Indus-	02
American Concrete Institute	04
-A/th annual convention, April -Regional meeting. December	63
American Concrete Pipe Association—	81
American Cyanamid Co.—Phosphate	74
American Institute of Mining and	
general meeting, April	22
separation. November	64
tions to the Sand and Gravel Industions to the Sand and Gravel Industrian Concrete Institute  47th annual convention, April  -47th annual convention, April  American Concrete Pipe Association  43rd annual convention, April  American Cyanamid Co.—Phosphate  plant, March  American Institute of Mining and  Metallurgical Engineers—171st  general meeting, April  American Limestone Co.—Heavy-media  American Mining Congress—Western  Division annual meeting, December  American Zinc Co. of Tennessee  Heavy-media separation, November  Anchor Stone and Materials Co.  Agricultural limestone, April  Annual reports—Public relations—Mar-  Annual reports—Public relations—Mar-  Annual reports—Public relations—Mar-	22
American Zinc Co. of Tennessee	64
Anchor Stone and Materials Co.	04
American Zinc Co. of Tennessee Heavy-media separation. November Anchor Stone and Materials Co.— Agricultural limestone, Aoril Annual reports—Public relations—Marquette Cement Manufacturing Co August	70
quette Cement Manufacturing Co	
Aurothosite corrective in cement, May Apparatus for Quick Determination of Plasticity of Masonry Cement Mortar, October Asbestos-cement pipe—Use in tailings	83
of Plasticity of Masonry Cement Mortar, October	14
Asbestos-cement pipe—Use in tailings	-

diament lune	12
Australia Concrete pressure pipe	14
Autoclaves	17
Autoclaves  -riarter Marblecrete Stone Co., Oct  -Use in concrete products plant, Aug	23
Badger Canarate Co. Concrete	
products, February	150
Ball mill-Types, February	9.
Barnes & Cone. Inc.—Steam curing Jan.	19
Badger Concrete Co.—Concrete products, February Ball mill—Types, February Ballast—Morrison-Knudsen Co., Nov. Barnes & Cone, Inc.—Steam curing, Jan. Basalt Rock Co.—Plant, July.— Becker County Sand and Gravel Co.— Sand for Garrison dam, November Belt conveyors	19
Sand for Garrison dam, November  Belt conveyors  Bull Shoals dam, September	71
-Concrete products plant use, March	14
Sana for Carrison dam, November.  Belt conveyors  -Bull Shoals dam, September  -Concrete products plant use, March.  -Extensive use of, February  -Radial stacking, October  -Round Mountain Gold Dredging	111
Corp., July	. 50
-Round Mountain Gold Dredging Corp. July -Summary of experiences, June Belt Conveyors at Bull Shoals Dam Prove Their Economy, September. Beneficiation (see also Flotation) -American Mining Congress, DecHumphreys Gold Corp. December -Limestone from zinc, November Bessemer Limestone & Cement Co. Honors G.G. Treat, May Bestone Concrete Corp.—Curing system, November Big Rock Stone & Material Co.—Plant,	101
Beneficiation (see also Flotation)	
-American Mining Congress, Dec	122
-Limestone from zinc, November	64
Honors G.G. Treat, May	82
November Big Rock Stone & Material Co.—Plant,	130
Big Rock Stone & Material Co.—Plant, August Blasting	174
-New developments, October	125
-Safety-National Safety Congress, November Blending-Use of air for dry process	101
kiln feed, August  Blending Sand to Meet Army Specifi-	156
cations, October Block Manufacturer's Office Sells His	100
Products, February	156
March	108
Bull Shoals dam—Belt conveyors, Sept	114
	182
C	
Calcination -Heat of, January	122
-Heat of, January -Machinery development, January Calcining-Preheater use, April Campbell Limestone Co.—Granite plant,	82
Campbell Limestone Co.—Granite plant, July	70
ping, May	79
CAR Sile Staves Co.—Conveyor handling	
of silo staves, June	180
ping. May Carolina Tuff-Lite Corp.—Plant. Aus C&B Silo Staves Co.—Conveyor handling of silo staves, June Cement	180
of silo staves, June  Cement  Blending raw mix with air, August  Chemistry—Rocky's Notes, July	180
of silo staves, June Cement -Blending raw mix with air, August -Chemistry—Rocky's Notes, July -Compartment mill performance, Mar.	180
of silo staves, June Cement Blending raw mix with air, August Chemistry—Rocky's Notes, July Compartment mill performance, Mar. Composition, January Conveying by nump June	180
of silo staves, June Cement  -Blending risw mix with air, August -Chemistry-Rocky's Notes, July -Compartment mill performance, MarComposition, January -Conveying by pump, June -Degree of clinker burning, November	180
Bending raw mix with air, August.  -Blending raw mix with air, AugustChemistry—Rocky's Notes, JulyCompartment mill performance, MarComposition, JanuaryConveying by pump, JuneDegree of clinker burning, NovemberDegree Perstand Coment Co. Dewey.	180 158 41 106 124 175 88
Sending shw mix with air, August. Chemistry—Rocky's Notes, July. Compartment mill performance, Mar. Composition, January. Conveying by pump. June Degree of clinker burning, November. Dewey Portland Cement Co., Dewey, Okia., August Granulated slag, July Granulated.	180 158 41 106 124 175 88 165 82
Cement  Blending raw mix with air, August.  Chemistry—Rocky's Notes, July  Chemistry—Rocky's Notes, July  Comparison, January  Conveying by pump, June  Degree of clinker burning, November.  Dewey Portland Cement Co., Dewey,  Okla., August  Granulated slag, July  Grinding,  August  August  August	186 41 106 124 175 88 165 82
Cement  Blending raw mix with air, August.  Chemistry—Rocky's Notes, July  Chemistry—Rocky's Notes, July  Comparison, January  Conveying by pump, June  Degree of clinker burning, November.  Dewey Portland Cement Co., Dewey,  Okla., August  Granulated slag, July  Grinding,  August  August  August	186 41 106 124 175 88 165 82
Cement  Blending raw mix with air, August.  Chemistry—Rocky's Notes, July  Chemistry—Rocky's Notes, July  Comparison, January  Conveying by pump, June  Degree of clinker burning, November.  Dewey Portland Cement Co., Dewey,  Okla., August  Granulated slag, July  Grinding,  August  August  August	180 158 41 106 124 175 88 165 82 127 144 94
Cement  Blending raw mix with air, August.  Chemistry—Rocky's Notes, July  Chemistry—Rocky's Notes, July  Comparison, January  Conveying by pump, June  Degree of clinker burning, November.  Dewey Portland Cement Co., Dewey,  Okla., August  Granulated slag, July  Grinding,  August  August  August	186 41 106 124 175 88 165 82 127 144 94 112
Bending saw mix with air, August.  Chemistry—Rocky's Notes, July.  Compartment mill performance, Mar.  Composition, January.  Conveying by pump, June  Degree of clinker burning, November.  Degree of clinker burning.  Degree of clinker	186 41 106 124 1175 88 165 82 127 144 112
Bending saw mix with air, August.  Chemistry—Rocky's Notes, July.  Compartment mill performance, Mar.  Composition, January.  Conveying by pump, June  Degree of clinker burning, November.  Degree of clinker burning.  Degree of clinker	186 41 106 124 1175 88 165 82 127 144 112
Cement of the mix with air, August — Blending rhw mix with air, August — Compartment mill performance, Mar. — Composition, January — Conveying by pump. June — Degree of clinker burning, November — Dewey Portland Cement Co. Dewey, Okla. August — Granulated slag, July — Granulated slag, July — Granulated slag, July — Grinding, August — Huron Förtland Cement Co. program. July — Co. — Lebigh Portland Cement Co. Mason City, lows, plant, August — Loe Star Cement Corp. Lone Star, Va. plant, August — Lone Star Cement Corp. Lone Star, Va. plant, August — Measurement of specimen lengths, June — Medusa's expansion program, June — Mill design — Editorial, August — Mill design — Mill design — Mill design — Editorial design	186 416 124 175 88 165 82 127 144 112 138 106 91
Cement of the mix with air, August — Blending rhw mix with air, August — Compartment mill performance, Mar. — Composition, January — Conveying by pump. June — Degree of clinker burning, November — Dewey Portland Cement Co. Dewey, Okla. August — Granulated slag, July — Granulated slag, July — Granulated slag, July — Grinding, August — Huron Förtland Cement Co. program. July — Co. — Lebigh Portland Cement Co. Mason City, lows, plant, August — Loe Star Cement Corp. Lone Star, Va. plant, August — Lone Star Cement Corp. Lone Star, Va. plant, August — Measurement of specimen lengths, June — Medusa's expansion program, June — Mill design — Editorial, August — Mill design — Mill design — Mill design — Editorial design	186 41 106 124 1175 88 165 82 127 144 112
Sending risw mix with air, August. Chemistry—Rocky's Notes, July. Compartment mill performance, Mar. Composition, January. Conveying by pump. June Degree of clinker burning, November. August August Huron Portland Cement Co., Mason City, Iowa, plant, August Lone Star Cament Corp., Lone Star, Measurement of specimen lengths, June Medusa's expansion program, June Mill design—Editorial, August Missouri Portland Cement Co.'s new plant, August Oil well, tests of product, October.	186 41 106 124 175 88 165 82 127 144 112 138 106 91
Cement of the mix with air, August.  Blending risw mix with air, August.  Compartment mill performance, Mar.  Composition, January.  Conveying by pump. June.  Degree of clinker burning, November.  Granulated slag, July.  Granulated slag, July.  Granulated slag, July.  Grinding,  August.  August.  Huron Portland Cement Co. program.  Lebigh Portland Cement Co. Mason.  City, lows, plant, August.  Looe Star Cement Corp., Lone Star,  Va. plant, August.  Measurement of specimen lengths,  June.  Medusa's expansion program, June.  Mill design.—Editorial, August.  Missouri Fortland Cement Co.'s  new plant, August.  Missouri Fortland Cement Co.'s  new plant, August.  Missouri Fortland Cement Co. s  new plant, August.  Mexicological control of the	186 411 106 124 1175 88 165 82 127 144 94 112 138 106 91 127 142 88
Sanding saw mix with air, August. Chemistry—Rocky's Notes, July. Compartment mill performance, Mar. Composition, January. Conveying by pump, June Degree of clinker burning, November. June Medusa's expansion program, June. Mill design—Editorial, August Measurement of specimen lengths, June Medusa's expansion program, June. Mill design—Editorial, August Oll well, tests of product, October. Oll well, tests of product, October. Particle size influence on strength, May Plant expansion, January	186 411 106 1124 1175 88 1175 88 1127 1144 1112 1138 1106 91 1127 1142 88 84 114
Sanding saw mix with air, August. Chemistry—Rocky's Notes, July. Compartment mill performance, Mar. Composition, January. Conveying by pump, June Degree of clinker burning, November. June Medusa's expansion program, June. Mill design—Editorial, August Measurement of specimen lengths, June Medusa's expansion program, June. Mill design—Editorial, August Oll well, tests of product, October. Oll well, tests of product, October. Particle size influence on strength, May Plant expansion, January	186 411 106 1124 1175 88 1165 82 127 1144 94 112 113 113 114 114 114 114 114 114 114 114
Cemeing risw mix with air, August. Chemistry—Rocky's Notes, July. —Compartment mill performance, Mar. —Composition, January. —Conveying by pump. June —Degree of clinker burning, November. —Cranulated slag, July. —Cranulated slag,	186 41 106 41 107 88 165 82 127 144 112 138 106 91 142 144 112 138 106 91 142 144 112 144 112 144 112 144 112 144 112 144 112 144 144
Cemeing risw mix with air, August. Chemistry—Rocky's Notes, July. —Compartment mill performance, Mar. —Composition, January. —Conveying by pump. June —Degree of clinker burning, November. —Cranulated slag, July. —Cranulated slag,	186 41 106 41 107 88 165 82 127 144 112 138 106 91 142 144 112 138 106 91 142 144 112 144 112 144 112 144 112 144 112 144 112 144 144
Cemein she mix with air, August Chemistry—Rocky's Notes, July Compartment mill performance, Mar. Chemistry—Rocky's Notes, July Compartment mill performance, Mar. Composition, January Conveying by pump. June Degree of clinker burning, November. July Lorent Degree of clinker. July Loren	186 41 124 175 88 165 82 127 144 112 138 106 91 112 114 114 114 114 114 115 88 84 114 115 88 84 115 84 116 116 116 116 116 116 116 116 116 11
Cemein she mix with air, August Chemistry—Rocky's Notes, July Compartment mill performance, Mar. Chemistry—Rocky's Notes, July Compartment mill performance, Mar. Composition, January Conveying by pump. June Degree of clinker burning, November. July Lorent Degree of clinker. July Loren	186 41 124 175 88 165 82 127 144 112 138 106 91 112 114 114 114 114 114 115 88 84 114 115 88 84 115 84 116 116 116 116 116 116 116 116 116 11
Chemistry—Rocky's Notes, July Chemistry—Rocky's Notes, July Chemistry—Rocky's Notes, July Chemistry—Rocky's Notes, July Compartment mill performance, Mar. Composition, January Conveying by pump, June Degree of clinker burning, November. August August Lone Star Cement Co., Mason Citv., Iowa, plant, August Lone Star Cement Corp., Lone Star, Lone Star, Lone Star Cement Corp., Lone Star, Lone Star, Lone Star, Lone Star Cement Corp., Lone Star, Lone Star Cement Corp., Lone Star, Lone Star Cement Corp., Lone Star, Lone Star	186 41 106 41 107 88 165 82 127 144 112 138 106 91 142 144 112 138 106 91 142 144 112 144 112 144 112 144 112 144 112 144 112 144 144

Cement research Japan September	98
Concrete Materials Industry, Nov	94
Cementos Portland del Bajio—High tem- perature oil well cement, October	142
Cen-Vi-Ro concrete pipe process, May	131
Cement research—Japan September Cement, Steel and Car Shortages Worry Concrete Materials Industry, Nor. Concrete Materials Industry, Nov. Central Concrete plants Cen-Vi-Ro concrete pipe process, May. Central-mixed concrete plants (see Ready-mixed concrete plants) Chicago's Ready Mix Industry Continues Rapid Growth, July Cinder block—Shrinkage tests, Sept. Clinder Products Corp.—Pumice concrete masonry, November Classification, air	
Chicago's Ready Mix Industry Continues Rapid Growth, July	112
Cinder block-Shrinkage tests, Sept	128
masonry, November	128
Classification, air	75
-Gonell apparatus, May	88
plant, September	75
Clinker burning—Measuring with	88
Cold weather concrete—Escanaba	
Colloid chemistry	121
-Application to soil chemistry Oct	77
-Applications, January	24
Colored Masonry Units, May	138
Combination Block Plant and Ready-	25
Comments on "Imaginative" Coment and	
Concrete Chemistry, May Commercial Plant Produces Sand	83
for Army, October Comparative Shrinkage Data for	02
Heavy and Lightweight Concrete	20
Cinder Products Corp.—Pumice concrete masonry, November Classification, air Clayton Silica Co., September Clavino Silica Co., September Clayton Silica Co., September Clayton Silica Co., September Clayton Company Clayton Company Clayton Company Concrete Corp., November Cold weather concrete—Escanaba Concrete Corp., November Colloid chemistry Colloid chemistry Colloid chemistry Colloid chemistry Concrete February Concrete February Concrete February Company Company Company Company Company Company Company Concrete Operation, November Company Compan	28 06 92
Concentrator—Humphreys spirals, Dec	92
Concrete  -Bond, August  -Chemistry—Rocky's Notes, May  -Colloid chemistry, February  -Durability—Rocky's Notes, March  -Controlled temperatures—produc-	53
-Chemistry-Rocky's Notes, MayColloid chemistry, February	69
-Durability-Rocky's Notes, March	57
tion, October	80
-Research, January -Strengths influenced by cement	Z4
particle size, May	88
affect durability, August	53
-Water the thermally incompatible aggregate. August	93
Concrete Industries Exposition, April	93 85
Kansas floods, September	89
Concrete masonry -Curing, February	54
Concrete masonry  -Curing, February  -Merchandising, February  -Shrinkage data Sentember	54
Concrete masonry —Curing, February —Merchandising, February —Shrinkage data, September —Steam curing—Barnes & Cone, Jan	54 58 28
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data, September - Steam curing — Barnes & Cone, Jan Tile facing, June Concrete masonry equipment — Concrete	54 58 28 91 82
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data, September - Steam curing.— Barnes & Cone, Jan Tile facing, June - Concrete masonry equipment— Concrete Industries Exposition, April	54 58 28 91 82
Concrete masonry - Curing, February - Merchandising, February - Strinkage data, September - Steam curing—Barnes & Cone, Jan Tile facing, June - Oncrete masonry equipment—Concrete Industries Exposition, April Concrete Materials Co.—Des Moines, lowa, plant, December	54 58 28 91 82 85
Concrete masonry — Curing, February — Merchandising, February — Merchandising, February — Steam curing— Barnes & Cone, Jan — Tile facing, June Concrete masonry equipment—Concrete Industries Exposition, April Concrete Materials Co.—Des Moines, Iowa, piant. December Sioux Falls. S. D., crushed stone plant, October	54 58 28 91 82 85 10
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data. September - Shrinkage data. September - Tile facing. Jumes - Tile facing. Jumes - Tile facing. Jumes - Concrete masonry equipment - Concrete Industries Exposition, April Concrete Materials Co. — Des Moines, Jowa, plant. December Concrete Materials Co. — Sioux Falls, S. D., crushed stone plant. October - Concrete pipe	54 58 28 91 82 85 10
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data, September - Steam curing—Barnes & Cone, Jan Tile facing, June - Concrete mass cone, April - Concrete Massaco April - Concrete Materials Co—Des Moines, - Lowa, plant. December - Concrete Materials Co—Sioux Falls, - S. D., crushed stone plant, October - Concrete pipe - Centrifugal manufacturing process, - May - May	54 58 28 91 82 85 10
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data, September - Steam curing.—Barnes & Cone, Jan Tile facing, June - Loncrete masonry equipment—Concrete Industries Exposition, April - Louerete Materials Co—Dea Moines, - Lowa, plant, December - Lowa, plant, December - Lowa, plant, December - Lowa, plant, December - Lowarete Materials Co—Sioux Falls, - S. D., crushed stone plant, October - Loncrete Materials Co—Lower plant - Cottober - Lower plant - May May - Pressure—Manufacture in Australia, - February	54 58 28 91 82 85 10 07
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data, September - Shrinkage data, September - Tile facing, June - Tile facing, June - Tile facing, June - Concrete masonry equipment—Concrete Industries Exposition, April Concrete Materials Co.—Des Moines, Jowa, plant, December - Concrete Materials Co.—Sioux Falls, - S. D. crushed stone plant, October - Contrigual manufacturing process, May - Pressure—Manufacture in Australia, - February - Prestressed units, October	54 58 28 91 82 85 10 07 31 49
Concrete masonry - Curing, February - Merchandising, February - Shrinkage data. September - Shrinkage data. September - Curing, February - Horizon Grandising, February - Horizon Grandising, February - Concrete Materials Co.—Des Moines, Iowa, plant. December - Concrete Materials Co.—Dioux Falls, - S. D., crushed stone plant. October - Concrete pipe - Centrifugal manufacturing process, - February - Pressure—Manufacture in Australia, - February - Frestressed units, October - Concrete pipe plants - Idaho Concrete Pipe Co., Inc., May - Indaho Concrete Pipe Co., Inc., May	54 58 28 91 82 85 10 07 31 49 74
Concrete masonry - Curing, February - Merchandising, February - Merchandising, February - Strinkage data, September - Steam curing—Barnes & Cone, Jan Tile facing, June - Tile facing, June - Tile facing, June - Concrete Materials Co.—Des Moines, Jowa, plant, December - Concrete Materials Co.—Sioux Falls, - S. D., crushed stone plant, October, - Centrifugal manufacturing process, - May - Pressure—Manufacture in Australia, - February - February - Manufacture in Australia, - February - October - Concrete Pipe Co., Inc., May - Utah Idaho Concrete Pipe Co., May - Ocncrete Pipe Co., May - Ocnc	54 58 28 91 82 85 10 07 31 49 74
Industries Exposition, April Concrete Materials Co.—Des Moines, Iowa, plant. December Concrete Materials Co.—Sioux Falls. S. D., crushed stone plant. October. Concrete plant of the plant	54 58 28 91 82 85 10 07 31 49 74 31 31 74
-Wage and hour law coverage, Oct	54 58 28 91 82 85 10 07 31 49 74 31 74 79
-Wage and hour law coverage, Oct	54 58 28 91 82 85 10 07 31 49 74 31 77 79
-Wage and hour law coverage, Oct	54 58 28 91 82 85 10 07 31 49 74 31 74 79
-Wage and hour law coverage, Oct	54 58 29 182 85 10 07 31 49 74 31 74 79 27 91 99
-Wage and hour law coverage, Oct	54 58 291 82 85 10 07 31 49 74 31 74 79 27 991 093 16
-Wage and hour law coverage, Oct	54 58 291 82 85 10 67 31 49 74 31 74 79 27 90 90 90 90 90 90 90 90 90 90 90 90 90
-Wage and hour law coverage, Oct	548 288 291 82 85 10 67 31 49 74 31 74 79 27 90 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
- Prestressed units, October - Wage and hour law coverage, Oct Concrete products plants - Ackerman Concrete Products Co September - Badger Concrete Co., February - Barnes & Conc, Inc., January - Basalt Rock Co., July - Bestone Concrete Corp., November - Campbell Supply Co., July - Cinder Products Corp., November - General Glaze Corp., June - Harter Marblecrete Stone - Marietta Concrete Corp. June - Marietta Concrete Corp.	28 82 73 82
Wage and hour law coverage, Oct Concrete products plants Concrete products plants Concrete products Co September Concrete Products Co September Concrete Co., February Barnes & Cone, Inc., January Basalt Rock Co., July Basalt Rock Co., July Bestone Concrete Corp., November Campbell Supply Co., July Cinder Products Corp., November Campbell Supply Co., July Cinder Products Corp., November General Glaze Corp., June Harter Marblecrete Stone Co., Oct Marietta Concrete Top., June November North Hollywood Concrete Tile Co., August V. Patuzo Bros & Son, June Ripley, Joseph M., November Rockford Brikcrete Co., May Standard Building Material Co., Nov. Superior Building Units, Inc., Aug. Superior Concrete Products Co., Sept. Vander Heyden, Inc., February Concrete test data—Use of, February Control of Tailings from Washing Plants	28 82 73 82
Wage and hour law coverage, Oct Concrete products plants Concrete products plants Concrete products Co September Concrete Products Co September Concrete Co., February Barnes & Cone, Inc., January Basalt Rock Co., July Basalt Rock Co., July Bestone Concrete Corp., November Campbell Supply Co., July Cinder Products Corp., November Campbell Supply Co., July Cinder Products Corp., November General Glaze Corp., June Harter Marblecrete Stone Co., Oct Marietta Concrete Top., June November North Hollywood Concrete Tile Co., August V. Patuzo Bros & Son, June Ripley, Joseph M., November Rockford Brikcrete Co., May Standard Building Material Co., Nov. Superior Building Units, Inc., Aug. Superior Concrete Products Co., Sept. Vander Heyden, Inc., February Concrete test data—Use of, February Control of Tailings from Washing Plants	28 82 73 82
Wage and hour law coverage, Oct Concrete products plants Concrete products plants Concrete products Co September Concrete Products Co September Concrete Co., February Barnes & Cone, Inc., January Basalt Rock Co., July Basalt Rock Co., July Bestone Concrete Corp., November Campbell Supply Co., July Cinder Products Corp., November Campbell Supply Co., July Cinder Products Corp., November General Glaze Corp., June Harter Marblecrete Stone Co., Oct Marietta Concrete Top., June November North Hollywood Concrete Tile Co., August V. Patuzo Bros & Son, June Ripley, Joseph M., November Rockford Brikcrete Co., May Standard Building Material Co., Nov. Superior Building Units, Inc., Aug. Superior Concrete Products Co., Sept. Vander Heyden, Inc., February Concrete test data—Use of, February Control of Tailings from Washing Plants	28 82 73 82
Wage and hour law coverage, Oct Concrete products plants Concrete products plants Concrete products Co September Concrete Products Co September Concrete Co., February Barnes & Cone, Inc., January Basalt Rock Co., July Basalt Rock Co., July Bestone Concrete Corp., November Campbell Supply Co., July Cinder Products Corp., November Campbell Supply Co., July Cinder Products Corp., November General Glaze Corp., June Harter Marblecrete Stone Co., Oct Marietta Concrete Top., June November North Hollywood Concrete Tile Co., August V. Patuzo Bros & Son, June Ripley, Joseph M., November Rockford Brikcrete Co., May Standard Building Material Co., Nov. Superior Building Units, Inc., Aug. Superior Concrete Products Co., Sept. Vander Heyden, Inc., February Concrete test data—Use of, February Control of Tailings from Washing Plants	28 82 73 82
Watershall units accoverage, Oct.  Watershall units accoverage, Oct.  Concrete products plant  Ackerman Concrete Products Co., September  Badger Concrete Co., February  Basalt Rock Co., July  Basalt Rock Co., July  Cinder Products Corp., November.  Cemprel Glaze Corp., Iune  Harter Marblecrete Stone Co., Oct.  Marietta Concrete Corp., June  North Hollywood Concrete Tile Co., North Hollywood Concrete Tile Co., Northern Concrete Products Co., June  V. Paturzo Bros. & Son, June  Riplev. Joseph M., November  Riplev. Joseph M., November  Rockford Brikcrete Co., May  Standard Building Material Co., Nov.  Superior Building Units, Inc., Aug.  Vander Heyden, Inc., February  Concrete test data—Use of, February  Control of Tailings from Washing Plant  Part IV. Inspiration Consolidated  Copper Co., February	28 82 73 82

Campana Man Allina of City Connect 1 100	to the conduction through them	Grading-Influence on sand mortar
Conveyor Handling of Silo Staves, June180 Conveyors (see Belt conveyors) Cooling, recuperative—Lime and clinker	Increasing production through "pro- ductive maintenance," October	Granite—Campbell Limestone Co. plant,
kilns. December 99	tional highway system, November 45	July 70
Cooling aggregates—Inundation method —Bull Shoals dam, September	limestone producers, December	Gravel  -J. L. Shiely Co. plant, November 74  -Railroad ballast Morrison-Knudsen
August	August163	Co., November
Crushed gravel—J. L. Shiely Co., Nov	October 103	plant. July 56
-Kentucky plants, December102	Elmhurst-Chicago Stone Co.—Barbers Corners and and gravel plant, Oct118	Gravity separation of minerals—Hum- phreys Gold Corp., December
-Production problems—Symposium,	Elongated particles (see Eliminating flat	Greece—Cement production, September 86
March 82 Crushed stone plants	and elongated particles) Employe relations (see also Labor re-	GrindingCement,
-Acme Materials Co., December 117	lations)	August127
-Acme Materials Co., December 117 -Campbell Limestone Co., July 70 -Concrete Materials Co., Sioux Falls,	-N.C.S.A. convention, March	-Centrifugal ball mill, February
S. D., October 107	-Wages-Labor Relations Trends, Feb. 71 England-Aggregate supply control-	-Gravity ball mill, February 93 -Gyratory ball mill, February 3
Dell Needham, December	Rocky's Notes, January 65	Gyratory Screen Developed for Sizing
Inland Line and Stone Co. Man. 164	Equipment—Directory of manufacturers, lanuary 229	Fine Materials, July
-Kentucky Stone Co., December	Escanaba Concrete Corp.—Ready-mixed	н
Reed Crushed Stone Co., December 102 Rogers & Brunnhoeffer, December 102	Essential Factors for Adequate Curing,	Hallett Construction Co Hawarden,
-Tobin Quarries, Inc., Alexandria.	February Establishing Responsibility for Dust,	lows plant October 100
S. D., October 105 Crushers, jaw Types and special uses.	June 127	Handling Large Tonnages of Gravel, July 56
June Practice and Theory	Evaluation and Development of Kiln Efficiencies	Halloway debris separator, December 110 Handling Large Tonnages of Gravel, July 56 Hard-Facing Mixer Blades, June 185 Harter Marblecrete Stone Co.—Concrete
-Part VI. Factors influencing crush-	-Part i. Heat losses at elevated	
-Part VII law crushers types and	-Part II. Capacities and kiln dimen-	Heat currents In cement kiln, August 161 Heat losses in rotary kilns, October 109
-Part VII. Jaw crushers, types and special uses, June 118	sions considered in rela- tion to fuel economy, May 73	Heavy-Media Separation Recovers Lime-
Crushing Quartzite for Ft. Randall Dam, October	-Part III. Sectioning of kilns by use	High Capacity Single-Unit Plant, Aug229
Curing	of quadrants a method to increase kiln efficiency,	High Pressure Steam Autoclaves, Oct173
-Essential factors, February 154	June113	Heat losses in rotary kilns, October
-Steam generator-Bestone Concrete Corp., November 130	-Part IV. Flame characteristics for maximum heat transfer	Highway construction—Editorial, Nov 45 How Temperature and Moisture Changes
1 - Superior Concrete Products Co	and minimum loss, July 65	May Affect the Durability of Concrete,
September 130	-Part V. Thermal characteristics of rotary cement and lime	Hudson Builders Material Co.—Plant,
D	rotary cement and lime kilns, August 161 Part VI. Quadrants suggested as	August 230 Humphreys Gold Corp.—Beneficiation.
Dams (Listed under project name)	solution to poor efficien-	December 92
Dams (Listed under project name) Dam projects—Review, January	-Part VII. Significance of CO and O <sub>2</sub>	Humphreys spirals—Concentrators, Dec. 92 Hungry Horse dam—Aggregates, Feb. 98 Huron Portland Cement Co.—Plants,
December	in stack cases. October 109	Huron Portland Cement CoPlants.
Debris separator—Halloway, December	-Part VIII. Lesses in heat utilization due to CO: from stone and	January Huron's Program to Increase Cement
December	H:O in fuel, November 83	Production, January 94
Depletion allowance (see also Percentage depletion)	in rotary kilns, December, 99	Hydraulic properties of granulated blast furnace slag, July 82 Hydraulic sand classifier—Rising cur-
-Editorial, February 67	L. G. Everist, Inc.  -Crushed stone plant, October	Hydraulic sand classifier—Rising cur- rent, November
-Editorial, February 667 -Editorial, February 67 -Editorial 67 -Editorial 68 -Editoria	-Sand production for Ft. Randall	rent, November
tion System, August 165	Fxcavating—Dragline operations. May 79	
Dowey Portland Cement Co.—Dewey,	Excavating and Processing Parlite, Nov. 62 Expanding Perlite in Rotary Kilns, July 74	Idaho Concrete Pipe CoCentrifugally
Okla., plant enlarged August 165	Expanding Perlite in Rotary Klins, July 14	Cast pipe, May
Picher Co., June 129 Directing and Using Research, January 124	, , , , , , , , , , , , , , , , , , ,	Impermeable Concrete Pipe, May
Directing and Using Research, January 124 Directory of Manufacturers Equipment,	Fair Labor Standards Act—Interpreta-	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry. -luly 60
Diversification Builds Volume Production.	Fifty Years in the Cement Industry, May 82	Impermeable Concrete Pipe, May   131   Industrial health—Silica industry.   -July   60   -December   112
Diversification Builds Volume Production,	fions. October 79 Fifty Years in the Cement Industry, May 82 Five Ouarries Serve Portable Plant, Dec. 105	Impermeable Concrete Pipe, May
Diversification Builds Volume Production, February 150	rions. October 79 Fifty Years in the Cement Industry, May 82 Five Quarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles)	Impermeable Concrete Pipe, May
Diversification Builds Volume Production, February 150	rions. October 79 Fifty Years in the Cement Industry, May 82 Five Quarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles)	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry. 60 -December 112 Industrial sand (see Silica) Industrial sand
January  Journal Diversification Builds Volume Production, February  Journal Diversification Builds Volume Production, February  Journal Diversification Builds Income Inc	rions. October 79 Fifty Years in the Cement Industry, May 82 Five Quarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles) Floot control—Missouri River Basin development October Floation—Phosphate, March. 74	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry. 60 -December 112 Industrial sand (see Silica) 114 Industrial sand (see Silica) 116 Industrial sand (see Silica) 116 Industrial sand Store Mose Nove 47 Industrial Silica 116 Industrial
January  Jan	rions. October Fifty Years in the Cement Industry, May 82 Five Quarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles) Floot control—Missouri River Basin development October Floation—Phosphat, March 74 FluoSolids process, October Fly ash—Hungry Horse dam, February, 98	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry.  —July — 610 Industrial sand (see Silica) Inflation controls—Rocky's Notes, Nov. 47 Influence of Cement Particle Size on Strength of Concrete, May 68 Inland Lime and Stone Co.—Plant. May 64 Insopiration Consolidated Copper Co.— 112 Instrumentation—Cement plants, Aug. 112 Instrumentation—Cement plants, Aug. 112
January  January  Diversification Builds Volume Production, February  February  John Herrich Physical and chemical  characteristics. April  Southle-Duty Storage Piles, December 109  Southle-Duty Storage Piles, December 109  Bow Mac  Quarries)  Ltd.—Dredging.  Praging Tile Manufacturers Meet, Dec. 168  Dredging. Self-propelled auction diredges.	rions. October 79 Fifty Years in the Cement Industry, May R2 Five Quarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elanguated particles) Flood control—Missouri River Basin de- 1004 Control—Missouri River Basin de- 1004 Flotation—Phosphate, March 1005 Fly ash—Hunery Horse dam, February 98 Ft. Randall dam	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry.  —July 60 Industrial sand (see Silica) Inflation controls—Rockv's Notes, Nov. 47 Influence of Cement Particle Size on Strength of Concrete, May 68 Inland Lime and Stone Co.—Plant May 64 Insolvation Consolidated Copper Co.— Tailing control, February 112 Insulating concrete—Vermiculite, Aug. 112 Insulating concrete—Vermiculite, 152
January  Jan	rions. October 79 Fifty Years in the Cement Industry, May R2 Five Ouarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles) Floot control—Missouri River Basin development October 94 Flottion—Phosobato March 125 Flyash—Hunchess, October 125 Flyash—Hunchess, October 98 Ft. Randall dam February 98 Ft. Randall dam 98 Ft. Randall dam 98 Foorse aggregate production, 98	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry, 60 —December 112 Industrial sand (see Silica) 112 Industrial sand (see Silica) 113 Inflation controls—Rockv's Notes, Nov. 47 Influence of Cement Particle Size on 88 Strength of Concrete, May Plant May 64 Insniration Consolidated Copper Co.— Tailing control, Pebruary 112 Instrumentation—Cement plants, Aug. 112 Insulating concrete—Vermiculity
January  Jan	rions. October  Fifty Years in the Cement Industry, May R2 Five Ouarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles)  Floot control—Missouri River Basin development October  Plottion—Phosphate, March 74 FlooSolids process. October 125 Fly ash—Honery Horse dam. February 98 Fl. Randall dam of the Process of the Proces	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry.  —July 60 Industrial sand (see Silica) Inflation controls—Rockv's Notes, Nov. 47 Influence of Cement Particle Size on Strength of Concrete, May 68 Inland Lime and Stone Co.—Plant May 64 Insolvation Consolidated Copper Co.— Tailing control, February 112 Insulating concrete—Vermiculite, Aug. 112 Insulating concrete—Vermiculite, 152
Danuary Decesification Builds Volume Production.  150 Decesification.  15	rions. October  Fifty Years in the Cement Industry, May R2 Five Ouarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles) Floot control—Missouri River Basin development October  Flottiens—Phosphate, March 74 FluoSolids process. October 125 Fly ash—Hunery Horse dam. February 98 Ft. Randall dam  Accreactes production October 98  - Corober 105 - Sand production.  October 105 - Sand production.  October 106	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry, -July 60 -December 112 Industrial sand (see Silica) 113 Inflation controls—Rocky's Notes, Nov. 47 Influence of Cement Particle Size on Strenath of Concrete, May 88 Inland Lime and Stone Co.—Plant. May 64 Inspiration Consolidated Copper Co.— Tailing control, February Instrumentation—Cement points, Aug. 112 Instrumentation—Cement points, Aug. 112 Integrated Concrete Block Plant, June 181  J Jahncke Service Inc.—History and
January  Jan	tions. October  Fifty Years in the Cement Industry, May R2 Five Ouarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles)  Flosoficios voccess. October  Flosoficios voccess. October  Fly ash—Hungry Horse dam. February  Ft. Randall dam  Acceptates production. October  October  103 Sand preduction.  October  106 October  107 October  108	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry.  -July 60 -December 112 Industrial sand (see Silica) 112 Insustrial control, February 112 Insustrial control, February 152 Integrated Concrete Block Plant, June 181  Jahncke Service Inc.—History and plants. April 90
Danuary Decemberation Builds Volume Production.  150 Decemberation Builds Volume Production.  150 December 150 December 160 December 16	tions. October  Fifty Years in the Cement Industry, May R2 Five Quarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and elongated particles) Floot control—Missouri River Basin de- float floating—Phosobate, March Flusdelids process, October 125 Fly ash—Hungry Horse dam, February 98 Ft. Randall dam  Acceptates production, October 98  -Coarse aggregate production, October 105 -Sand production, October 106 -Service Missouri River Basin del 107 Freight rates—Rocky's Notes, Iune 81 Freight rates—Rocky's Notes, Iune 81 Fuel economy (see also, Evaluation and	Impermeable Concrete Pipe, May 131 Industrial health—Silica industry.  -July 60 -December 112 Industrial sand (see Silica) 112 Insustrial control, February 112 Insustrial control, February 152 Integrated Concrete Block Plant, June 181  Jahncke Service Inc.—History and plants. April 90
Description Builds Volume Production.  Polomite—Physical and chemical characteristics. April 197  Pouble-Duty" Storage Piles, December 199  Description 197  De	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October Arch 74 Flood Solids process. October 125 Fly ash—Hunery Horse dam. February 98 F. Randall dam. Acceptable Production. 103 October 105 October 105 Sand production. 105 October 105 Sand production. 105 Forticher 106 Freight rates—Ricky's Notes. Iune 102 Freight rates—Ricky's Notes. Iune 100 Freight Rates—Ricky's Notes Iune 100 Freight Rates—Ricky R	Impermeable Concrete Pipe, May 131 Industrial health—Silicia industry.  -July 60 -December 112 Industrial sand (see Silica) 113 Industrial sand (see Silica) 113 Industrial sand Silica) 113 Industrial sand Silica 113 Ind
Description Builds Volume Production.  Polomite—Physical and chemical characteristics. April 102  Pouble-Duty" Storage Piles, December, 109  Description Co.—Plant. Dec. 109  Description Co.—Plant. Dec. 109  Description Co.—Plant. Dec. 109  Description Co.—Plant. Dec. 168  Description Co.—Plant. Dec. 168  Description Co.—Plant. Piles  Political Co.—Plant. Piles  Political Co.—Plant. Piles  Political Co.—Plant. Piles  Political Co.—Plant. December 122  Limestone mine. January 123  —Symnosium—A L.M.E. meeting. April 127  Drills—Rotary. October 125  Drills—Rotary. October 125  Drills—Rotary. 131  March 57  May 57  May 68  Temporature and moisture change	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October 105 Flood Solids process. October 125 Fly ash—Hunery Horse dam. February 98 F. Randall dam Averente production. 103 October 105 October 105 Sand production. 106 October 105 Sand production. 106 Freight rates—Ricky's Notes. June 102 Freight rates—Ricky's Notes. June 102 Freight rates—Ricky's Notes. June 103 Decement of Kills Efficienties 103 Rotary kills—Role of preheater, April 117	Impermeable Concrete Pipe, May   31   Industrial health—Silica industry   10   - December   112   Industrial sand (see Silica)   Industrial sand (see Si
January  Jeruary February Britania Builds Volume Production, February Physical and chemical 102  Pouble-Duty" Sterage Piles, December, 109  Bow-Mac (Quarries) Ltd.—Dredging, September  Predging Self-propelled auction dredges, September  Jeruary Britania Mining Congress, December 122  Limestone mine, January 124  Symposium—A.I.M.E. meeting, April 172  Prillis—Rotary, October  Draining Congress, December 122  Limestone mine, January 124  Symposium—A.I.M.E. meeting, April 172  Purability 2.  Lanuary 131  March 57  March 57	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and consisted overtices)  Flat sandall dam Acrot 74 Flussolids vnocess. October 125 Fly ash—Hunery Horse dam. February 98 Ft. Randall dam Acorpeates production.  October 103  Cocher 105  Sand production. 105  Sand production. 107  Coctober 106  October 107  Freight rates—Rocky's Notes, lune 81 Fuel economy (see alon Evaluation and Develorment of Kiln Efficiencies)  -Rotary kiln—Role of preheater, April 117	Impermeable Concrete Pipe, May   31   Industrial health—Silica industry.   -   uly   -   00   -   December   112   -   December   113   -   December   114   -   December   115
Described in Builds Volume Production.  Pounite—Physical and chemical characteristics. April 197  Pouble-Duty" Storage Piles, December 199  Described Storage Piles, December 199  Pour 199  Po	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Floot control - Missouri River Basin development October 125 Fly ash - Hunery Horse dam. February 98 Floatside srocess. October 125 Fly ash - Hunery Horse dam. February 98 Corres aggregate production. October 105 October 105 October 105 Sand production. 106 October 107 Freiende Serve Serve 108 Fuel economy (see also Evaluation and 107 Development of Kill Efficiencies) - Rotary kiln - Role of preheater, April 117	Impermeable Concrete Pipe, May   31   Industrial health—Silica industry   10   - December   112   Industrial sand (see Silica)   Industrial sand (see Si
Description Builds Volume Production.  Polomite—Physical and chemical characteristics. April 102  Pouble-Duty" Storage Piles, December, 109  Description County Gravel Co.—Plant. Dec. 108  Description County Gravel Co.—Plant. Dec. 108  Description County Gravel County	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October 7 Flood Solids process, October 125 Fly ash—Hunery Horse dam. February 98 Ft. Randall dam American 185 Control—Phosphate March 98 Ft. Randall dam American 195 Cotober 105 October 105 Cotober 105 Cotober 105 Cotober 106 Freight rates—Rocky's Notes, Iune 107 G Garrison dam 7 Accregates, November 7 Coarse aggregate—I L. Shiely Co. 72	Impermeable Concrete Pipe, May 131 Industrial health—Silicia industry.  —July 60 —December 60 —December 10 —Influence of Cement Particle Size on Strength of Concrete, May 68 Influence of Cement Particle Size on Strength of Concrete, May 68 Inland Lime and Stone Co.—Plant May 64 Insoiration Consolidated Copper Co.— Tailing control, February 12 Instrumentation—Cement plants, Aug. 112 Instrumentation—Cement plants, Aug. 112 Fready-mixed, February 112 Integrated Concrete Block Plant, June 181  Jahncke Service Inc.—History and plants, April 19 Japan Cement Engineering Association—3th annual convention. September 98 Jaw crushers (see Crushers) Jim Woodruff dam—Controlled temperature concrete, October 180  K Kansas City Perlite Expanding Plant,
Description Builds Volume Production.  Polomite—Physical and chemical characteristics. April 102  Pouble-Duty" Storage Piles, December, 109  Description County Gravel Co.—Plant. Dec. 108  Description County Gravel Co.—Plant. Dec. 108  Description County Gravel County	rions. October  Fifty Years in the Cement Industry, May R2 Five Ouarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and eloneated carticles)  Flat particles (see Eliminating flat and eloneated carticles)  Flat particles (see Eliminating flat and eloneated carticles)  Flatation—Phosohate, March 74 Flustsion—Phosohate, March 74 Fluston—Phosohate, March 74 Flusdelids vrocess, October 125 Fly ash—Hunery Horse dam, February 98 Ft. Randall dam Acceptate production.  October 98  Conse aggregate production.  October 103 October 105 Sociolation, 105 October 106 October 107 Cotober 107 Cotober 107 Cotober 108 Freight rates—Rocky's Notes, lune 81 Fuel economy (see alon Evaluation and Develonment of Kiln Efficiencies) Rotary kiln—Role of preheater, April 117  Garrison dam Acceptate—J. L. Shiely Co., November 72  Coarse aggregate—J. L. Shiely Co., November 74	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   60   December   112   December   113   December   114   December   114   December   115   December   115   December   116   December
Daishication Builds Volume Production. Femination Builds Volume Production. Daw-Mac (Quarries) Ltd.—Dredging. 2 Daw-Mac (Quarries) Ltd.—Dredging. 2 Daw-Mac (Quarries) Ltd.—Dredging. 2 Daw-Mac (Quarries) Ltd.—Dredging. 2 Drain Tile Manufacturers Meet, Dec. 168 Dredging—Self-propelled suction dredges. September. Septe	rions. October  Fifty Years in the Cement Industry, May R2 Five Ouarries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and eloneated carticles)  Flat particles (see Eliminating flat and eloneated carticles)  Flat particles (see Eliminating flat and eloneated carticles)  Flatation—Phosohate, March 74 Flustsion—Phosohate, March 74 Fluston—Phosohate, March 74 Flusdelids vrocess, October 125 Fly ash—Hunery Horse dam, February 98 Ft. Randall dam Acceptate production.  October 98  Conse aggregate production.  October 103 October 105 Sociolation, 105 October 106 October 107 Cotober 107 Cotober 107 Cotober 108 Freight rates—Rocky's Notes, lune 81 Fuel economy (see alon Evaluation and Develonment of Kiln Efficiencies) Rotary kiln—Role of preheater, April 117  Garrison dam Acceptate—J. L. Shiely Co., November 72  Coarse aggregate—J. L. Shiely Co., November 74	Impermeable Concrete Pipe, May 131 Industrial health—Silicia industry.  —July 610 —Jul
Description Builds Volume Production.  Polomite—Physical and chemical characteristics. April 102  Pouble-Duty" Storage Piles, December, 109  Description County Gravel Co.—Plant. Dec. 108  Description County Gravel Co.—Plant. Dec. 108  Description County Gravel County	tions. October  Fifty Years in the Cement Industry, May R2 Five Ountries Serve Portable Plant, Dec. 105 Fifty Years in the Cement Industry, May R2 Five Ountries Serve Portable Plant, Dec. 105 File Out Control Missouri River Basin develonment October  Ploostoids process. October 125 File ash—Hunery Horse dam. February 98 F. Randall dam October 105 Corse aggregate production. October 105 Corse aggregate production. October 106 Fine Missouri River Basin development October 105 Fireint rates—Rocky's Notes. June 107 Freicht rates—Rocky's Notes. June 107 Garrison dam Aceregates. November 72 Coarse aggregate—J. L. Shiely Co. November 107 November 107 November 107 Sand-Becker County Sand and 107 Gas tribines—Use in cement plant, 78 Gas tribines—Use in cement plant, 78 Gas tribines—Use in cement plant, 78	Impermeable Concrete Pipe, May 131 Industrial health—Silicia industry.  —July 60 —July 60 —Industrial sand (see Silica) Inflation controls—Rocky's Notes, Nov. 47 Influence of Cement Particle Size on Strength of Concrete, May 68 Inland Lime and Stone Co.—Plant May 64 Insopiration Consolidated Copper Co.—Tailing control, February 112 Insulating concrete—Vermiculite, 2112 Insulating concrete—Vermiculite, 2112 Insulating concrete—Vermiculite, 212 Integrated Concrete Block Plant, June 181  Jahncke Service Inc.—History and plants, April Japan Cement Engineering Association—3th annual convention. September 98 Jaw crushers (see Crushers) Jam Woodruf dam—Controlled temperature concrete, October  K  Kansas City Perlite Expanding Plant, June 116 Kansas Gods—Activities of producers, 89 Kentucky Crushed Stone Industry Expands, December 102
Data Proposed State of the Control o	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Floot control—Missouri River Basin devolument October  Flootside process. October 125 Fly ash—Henery Horse dam. February 98 Floatside process. October 125 Fly ash—Henery Horse dam. February 98 -Corres aggregate production. 103 October 105 -Sand production. 106 -Sand production. 106 -Sand production. 107 -Sand production. 108 -Sand production. 109 -Sand Decker Sand Sand Sand 172 -Corres aggregate—J. L. Shiely Co., NovemberCorres aggregate—J. L. Shiely Co., November	Impermeable Concrete Pipe, May 131 Industrial health—Silicia industry.  -July 60 -December 112 Industrial sand (see Silica) 112 Influence of Cement Particle Size on 112 Influence of Cement Particle Size on 112 Insulating control. February 112 Insulating control. F
Daisfication Builds Volume Production. Festification Builds Volume Production. Festification. Fe	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Fig. Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 File On Plant Plant, Dec. 105 File Outrol Missouri River Basin development October March 74 FlooSolids process. October 125 File ash.—Hunery Horse dam. February 98 Fl. ash.—Hunery Horse dam. February 98 Fl. ash.—Hunery Horse dam. February 98 Corse aggregate production. October 105 October 106 October 107 October 108 Fuel Advanced Plant P	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   -   101   -   101   -   102   -   103   -   104   -   105
Danuary Decembration Builds Volume Production.  Provided Transport of the Provided Transport of	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Fig. Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 File Ounries Serve Portable Plant, Dec. 105 Flood control — Missouri River Basin develonment October  Plood Control — Missouri River Basin develonment October March 74 Floodidid sprocess. October 125 Fly ash—Hunery Horse dam. February 98 Fl. Randall dam 105 Coctober 105 Coctober 105 Coctober 105 Coctober 105 Coctober 106 Coctober 106 Freicht rates—Rocky's Notes. June 107 Garrison dam - Acer-gates, November Gravel Co. November 107 Coarse aggregate—J. L. Shiely Co. November 107 Coarse aggregate—J. L. Shiely Co. November 107 Coarse aggregate—J. L. Shiely Co. November 107 Coarse aggregate—J. R. Shiely Co. November 107 Co	Impermeable Concrete Pipe, May   31   Industrial health—Silica industry.   -July
Danuary Decembration Builds Volume Production.  Provided Transport of the Provided Transport of	rions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin development October  Flood Side The Serve Portable Plant, Dec. 105 Flood Control—Missouri River Basin development October  Flood Side The Serve Plant Plant Proceedings of the P	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   -   101   -   101   -   102   -   103   -   104   -   105
Description of dustrial measurements lune  Language of dustrial measurements lune  Lan	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October 94 Flotation—Phosphate, March 74 Flood Solids process, October 125 Fly ash—Hunery Horse dam. February 98 Ft. Randall dam American 103 October 105 Sand production. 105 October 105 Sand production. 106 October 106 Freight rates—Rocky's Notes, Iune 107 Garrison dam Accregates. November 7 Garrison dam Accregates. November 7 Garrison dam 7 Garrison dam 17 Garrison dam 18 Garrison dam 18 Garrison dam 19 Garri	Impermeable Concrete Pipe, May   31   Industrial health—Silica industry.
Described and services and serv	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October 94 Flotation—Phosphate, March 74 Flood Solids process, October 125 Fly ash—Hunery Horse dam. February 98 Ft. Randall dam American 103 October 105 Sand production. 105 October 105 Sand production. 106 October 106 Freight rates—Rocky's Notes, Iune 107 Garrison dam Accregates. November 7 Garrison dam Accregates. November 7 Garrison dam 7 Garrison dam 17 Garrison dam 18 Garrison dam 18 Garrison dam 19 Garri	Impermeable Concrete Pipe, May   131   Industrial health—Silica industry.   610   Industrial sand (see Silica)   161   Influence of Cement Particle Size on Strength of Concrete, May   68   Instrumentation—Consolidated Copper Co.   112   Insulating concrete—Vermiculite, readv-mixed, February   112   Insulating concrete—Vermiculite, readv-mixed, February   152   Integrated Concrete Block Plant, June   181   Jahncke Service Inc.—History and plants, April   193   Japanese Cement Reads   90   Japanese Cement Reads   91   Japanese Cement Responding Plant, June   116   Kansas City Perlite Expanding Plant, June   116   Kansas Gloods—Activities of producers, September   89   Kentucky Crushed Stone Industry   102   Kentucky Stone Co.—Crushed stone   102   Carrison dam, November   83   Kin efficiencies (see also Evaluation and Development of Kiln Efficiencies   83   Kiln efficiencies (see also Evaluation and Development of Kiln Efficiencies   112   Specific heat and heat of calcina   122   Kiln feed—Blending raw cement mix.
Described and services and serv	tions. October  Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October 125 Fly ash—Hunery Horse dam. February 98 Floatsien—Phosohate. March 74 FlyoSolids process. October 125 Fly ash—Hunery Horse dam. February 98 F. Randall dam Acceptage production. 103 October 105 October 105 Sand production. 106 October 106 Sand production. 107 Freight ratee (see also Evaluation and 108 Devolument of Kiln Efficiencies) Rotary kiln—Role of preheater, April 117  G Garrison dam - Avergates. November 72 -Coarse aggregate—J. L. Shiely Co., November 74 -Riorap—Peter Kiewit Sons Co. Nov. 83 -Sand—Becker County Sand and Gravel Co., November 78 Garrison Cement Co., Plants in Greece, September General Glaze Corn.—Plant Inne 182 Genovese Coal & Masons' Material Co.—Rendy-mixed insulating concrete. Feb. 152 Geochemistry—Applications to concrete. 69 Geographic Pricine Policies (book review)—Rocky's Notes, June 8 Gonell air classification apparatus, May, 88	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   -   101   -   101   -   102   -   103   -   104   -   105
January  Polomite—Physical and chemical characteristics. April 102  Pouble-Duty" Storage Piles, December 109  Desember 109  Dese	tions. October Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October 94 Flotation—Phosphate, March 74 FlooSolids process, October 125 Fly ash—Hunery Horse dam. February 98 Ft. Randall dam American 103 October 98 Fr. Randall dam American 105 October 105 Sand production. 106 October 105 Sand production. 107 Freight rates—Rocky's Notes, lune 107 Garrison dam -Agergates November 75 - November 107 - November 107 - November 107 - November 107 - Ripran—Peter Kiewit Sons' Co. Nov. 83 - Sand—Becker County Sand and Gravel Co. November 169 General Cement O.—Plants in Grece, 169 General Cement O.—Plants in Grece, 169 General Glase Corn.—Plant, lune 182 Genovese Coal & Masons' Material Co.—Ready-mixed insulating concrete, February 169 Geographic Pricine Policies (book review)—Rocky's Notes, lune 181 Gonell air classification apparatus, May 86 Gortneyel stonell stonell stonell are 171	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   -   uly   -   00   -   December   112   -   December   113   -   December   114   -   December   114   -   December   115   -   December   115   -   December   115   -   December   116   -   December   117   -   December   117   -   December   118   -   December   118
Distriction Builds Volume Production.  Posimite—Physical and chemical characteristics. April 90  Posible-Duty" Storage Piles, December 199  Duglas County Gravel Co.—Plant. Dec. 109  Dww. Mac (Quarries) Ltd.—Dredging. September.  September.  Position of Machiners Meet. Dec. 168  Predging—Self-propelled auction dredges. September.  September.  September.  Particle of September.  American Mining Congress, December 122  Limestone mine. Ianuary 123  Symnosium—Al. M.E. meeting. April 127  Parability —Concrete.  January 131  March 57  Mav 63  —Tenterature and moisture change effect on concrete, August 153  Dust effect on concrete, August 153  Bust —Evaluation of dustfall measurements. June 154  —Evaluation of dustfall measurements. June 127  —Measurement of fall. February 114  Butch State Mines separator, March 74  Duight-Lloyd sintering process, Aug. 109  E  Eagle-Picher Co.—Plant, June 129  Editor's Page —Program for public relations. Jan. 63  —War programs impact on the rock 74  Point gained for aggregate industry in taxation. March 75  —Permanent ill effects can come from 157  —Peractical anoroach to accident prevention. May acressly action on percentage depletion, June 79  —Agstone associations approaching	tions. October Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October Flood Solids process. October 125 Fly ash—Hunery Horse dam. February 98 Fl. Randall dam Anorth 198 Garrison dam Anorth 198 Fl. Randall dam Anorth 19	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   -   uly   -   00   -   December   112   -   December   113   -   December   114   -   December   114   -   December   115   -   December   115   -   December   115   -   December   116   -   December   117   -   December   117   -   December   118   -   December   118
Description of the second of t	rions. October Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Floot control—Missouri River Basin development October FlooSolids process. October 125 Fly ash—Henery Horse dam. February 98 Floatsing—Phosphate. March 24 FlooSolids process. October 125 Fly ash—Henery Horse dam. February 98 -Cortober 105 Cortober 105 -Cortober 105 -Sand production. October 105 -Sand production. 106 -Cortober 105 -Sand production. 106 -Sand production. 107 -Sand production. 107 -Sand production. 108 -Sand Pocker's Notes. Iune Fuel economy (see also Evaluation and 107 -Rotary kiln—Role of preheater, April 117  G  Garrison dam -Avergates. November 72 -Coarse aggregate—J. L. Shiely Co., November 106 -Coarse aggregate—J. L. Shiely Co., November 107 -Rotary Kiln—Role of preheater, April 117 -Coarse aggregate—J. L. Shiely Co., November 106 -Coarse aggregate—J. L. Shiely Co., November 107 -Coarse aggrega	Impermeable Concrete Pipe, May 131 Industrial health—Silicia industry.  —July 60 —December 60 —December 10 Influence of Cement Particle Size on Strength of Concrete, May 188 Inland Lime and Stone Co.—Plant May 64 Insoiration Consolidated Copper Co.—Tailing control, February 112 Instrumentation—Cement plants, Aug. 112 Instrumentation—Cementary 112 Instrumentation—Cementary 112 Instrumentation—Cementary 112 Instrumentation—Cementary 113 Instrumentation—Cementary 114 Instrumentation—Cementary 115 Instrumentary
Daisification Builds Volume Production. Femication But Volume Production. Femication But Volume Production. Daw-Mac (Quarries) Ltd.—Dredging. 92 Daw-Mac (Quarries) Ltd.—Dredging. 92 Daw-Mac (Quarries) Ltd.—Dredging. 92 Drain Tile Manufacturers Meet, Dec. 168 Dredging—Self-propelled suction dredges. September 92 Drain Tile Manufacturers Meet, Dec. 169 Program Mining Congress, December 122	tions. October Fifty Years in the Cement Industry, May R2 Five Ounries Serve Portable Plant, Dec. 105 Flat particles (see Eliminating flat and Flood control—Missouri River Basin devolument October Flood Solids process. October 125 Fly ash—Hunery Horse dam. February 98 Fl. Randall dam Anorth 198 Garrison dam Anorth 198 Fl. Randall dam Anorth 19	Impermeable Concrete Pipe, May   131   Industrial health—Silicia industry.   -   uly   -   00   -   December   112   -   December   113   -   December   114   -   December   114   -   December   115   -   December   115   -   December   115   -   December   116   -   December   117   -   December   117   -   December   118   -   December   118

L	Material Service Corp.—Ready-mixed	0
Labor Management Relations Act	Materials handling	Observations From a Year of Travel,
-Interpretations, July	-Belt conveyors—Bull Shoals dam,	Operation of Long Best Conveyors, June 106
Labor relations	September 78 -Gravel, July 56	Operation of Long Dete Conveyors, June 190
-Accomplishments-Editorial, Sept 47 -Program at Marquette Cement Manu-	Quarry—Moores Lime Co., September 84 Maule Industries, Inc.—Advertising	P
facturing Co., August	methods, October179	Pacific Coast Aggregates, Inc.—Eliot
Labor Relations Trends -Company Pension Plan Problems, Jan. 67	Measurement of Cement Specimen Lengths, June	Pachageu Central Mixing Plant, August 225
-Union Rights in Pay Scales, February 71 -Why Some Unions Don't Like T.H	Measuring Rate of Dustfall, February114 Mechanical Handling of Riprap, August174	ranets—Crimping of worn panets, June
Act, March 59 -Wage and Price Freezes and Thaws,	Medusa's Current Expansion Program,	June
April	Merchandising	Pennsylvania Stone Producers Associa- tion—Agricultural Limestone Division
-Ail Government Purchases of Agstone May Come Under Public Contracts Act, May	-Agricultural limestone, April 96	meeting, May 86
-Tax Aspects of Pension Plans, June 83	April	-industry problems, January
-Tax Aspects of Pension Plans, June 83 -Picket Lines No Longer Sacred, July 43 -U. S. Supreme Court Defines Primary	February158	-Lapor Relations Frends, January 67
and Secondary Strikes and Boycotts.	March 141 November 132	
August 95Employers' Illegal Activities in Fight	November 132 -Ready-mixed concrete, November 131 Merchandising to Small Communities,	-Editorial, June
August 97 -Employers' Illegal Activities in Fight Between Rival Unions, September 51 -Wage and Hour Laws' Coverage of	lune 154	Pertise plants -Asatex Construction Service, Inc., July 74
Concrete Products and Ready-Mix.	Merchandising with a Punch, April 96 Miami Capper Co.—Control of tailings, September	-Alexite Engineering Div., October138 -Panacalite Periite, Inc., June
-Another Agricultural Limestone Pro-	Midwestern Ready Mix Producers Meet,	Phosphate Recovery methods—Ameri-
ducer Penalized Under Public Con- tracts Act—Highway Materials Not Under Wage and Hour Law, Nov 49 Holes in Wage and Price Stabiliza-	May	Phosphate—Recovery methods—American Cyanamid Co., March
Under Wage and Hour Law, Nov 49	Mining Congress Features Beneficiation.	Physical and Chemical Characteristics of Limestones and Dolomites, April
tion rian, December	Drilling and Grinding, December	Pipe Producers Talk Snop, April
Lake City Lightweight Aggregate Corn	Drilling and Pulverizing, April	Planned Program for Land Rehabilita- tion, January
I and rehabilitation	Mining Vermiculite Ore for National Distribution, September 64	Planus Ligntweight—Ackerman Con- crete Products Co., September
-American Aggregates Corp., January 13. -Editorial, January 65. -Industry problems, January 118. Largest Sand and Gravel Plant, February 86.		Plant Designed for Low Labor Cost July 70
-Industry problems, January 118	tion Annual meeting May Misseuri Portland Cement Co.'s New Wet Process Plant, August Misseuri River Basin development Aggregates' role, October Garrison dam, November 72	Plant Designed for Low Labor Cost July 70 Plant hazards—National Safety Con- gress November 101
Largest Sand and Gravel Plant, February 86	Wet Process Plant, August	Plant Uses Effective Curing System,
Latest Recovery Methods Highlight Florida Phosphate Plant, March 74	Missouri River Basin development  -Aggregates' role, October 94	
Legislation Dominates Silica Meeting,	-Garrison dam, November 72	Plasticimeter, October 114 Plasticity—Masonry cement mortar—
Lehigh Materials Co Lightweight ag-	Missouri Valley Limestone Co.—Agricul- tural limestone—Merchandising, April 100	Pollution—(see Air pollution or Stream
gregates. September 94 Lehigh Portland Cement Co.—Mason	tural limestone—Merchandising, April 100 Moores Lime Co.—Quarrying, September 84 Morrison-Knudsen Co.—Gravel ballast,	
City, Iowa, plant, August	November 81	Porosimeter Method for Measuring De- gree of Clinker Burning, November 88
Lightweight aggregates (see Aggregates, lightweight; also name of specific ag- gregate)	Mostly Routine Business Conducted by N.C.S.A. Directors, August 173	Portable Plant Increases Output, Dec
gregate) -N.C.M.A. convention, March [4] -Sintering, March [4]		-Crushed limestone, December
-Sintering March 141 Lightweight block—Pumice—Cinder Products Corp., November 128	N	December 117
Products Corp., November 128	National Agricultural Limestone Associa-	-Machinery development, January 82 -Quartzite, October
Lightweight precast plank—Ackerman Concrete Products Co., September 127	tion	Portable Units Assembled for Large Ton-
Lime -Germany, October 125	-6th annual convention, March 108	Portland cement (see Cement)
-Kilns-Recuperative cooling Dec. 99	National Agricultural Limestone Insti- tute—Editorial, December	Portland-siag cements-Europe, May 83
Shaft kilns, October 125 Lime manufacture—Determining opti-	National Cinder Concrete Products As-	Potassium dichromate solutions—Stand- ardization, December
mum length kiln February 108	sociation—28th annual meeting, Sept. 132 National Concrete Masonry Association	Precast Lightweight Concrete Planks, September 127
Lime Plant Mechanizes Stone Handling, September 84	-Convention and exposition program,	Present panels Marchandistan Out-has 170
Lime Producers Discuss Market Develop- ment, July 77	January	Preheater's Role in Kiln Efficiency, April 117 Prestressed Concrete Conference Stresses
Lime Producers Inspect New England	January 187	Precast Units, October 174
Plants. October 125 Limestone	-31st annual convention, March 141	Price stabilization—Labor RelationsTrends, April 77
-Inland Lime and Stone Co. plant, May 64	National Concrete Products Asso- ciation—Canada, March	December 79
Quarrying Moores Lime Co., Sept. 84 Stope mining, January 128	National Crushed Stone Association	Processing Perlite Ore for Expansion, October 138
- warner Co. mine, January 126	-Midsummer meeting, board of di- rectors, August	
Liming -Requirements and benefits, June122	-34th annual convention, March 82	Processing Tailings into Lightweight 94 Aggregates, September 94 Producing Cold Weather Concrete, Nov. 131 Producing Concrete of Controlled Temperature for Jim Woodburff Dam, Oct. 180 Producing Quality Maggregates from Deposit Containing Questionable Materials, November 148
-Rocky's Notes, October	National Industrial Sand Association -Fall meeting, December	Producing Concrete of Controlled Tem-
Logical Approach to Accident Preven- tion. May 80	-15th annual meeting, July 60	Producing Gravel Railroad Ballast, Nov. 81
Lone Star's New Virginia Plant Sets High Operating Standard, Angust J. P. Loomis Coal & Suoply Co.—Ready- mixed concrete plant August 225	-Special meeting report, May	Producing Quality Aggregates from De- posit Containing Questionable Mate-
J. P. Loomis Coal & Supply CoReady-	<ul> <li>49th annual convention, July</li></ul>	rials, November 74
mixed concrete plant. August 225 Low-Cost Winter Concrete, August 230	National Production Authority Regula-	Producing Riprap, Filter Stone and Jetty Rock. October 107
and the state of t	tions, April 95 National Ready Mixed Concrete Asso-	Producing Sand and Gravel Aggregates
M	ciation	for Hungry Horse Dam, February 98 Producing Sand and Gravel in England,
McHenry Sand & Gravel CoReady-	-Board of directors' meeting, Nov 94 -21st annual convention, April	lune 98
mixed concrete, June	National Safety Congress-39th annual	Producing Sand for Garrison Dam, Nov. 78 Producing Vermiculite Aggregate, Dec. 96 Product Improvement Keynote of Cinder
Macco Corp.—Sizing fine materials, July 69 Machinery—Concrete industries exposi-	meeting—Cement and Quarry Section, November 101	
tion, April 185 Machinery Developments of 1950, Jan. 82	National Sand and Gravel Association	Production of Cement in Greece, Sept 85 Production of Diatomaceous Earth. June. 129
Magma Copper Co.—Tailing control.	-Board of directors' meeting, Nov	Production of Diatomaceous Earth, June. 129 Production problems—Crushed stone.
Magnesium 124	National Slav Associatios—33rd annual meeting, January 146	March 82
-Use on crops May 71	Needs for Lime-Animal and Vegetable,	Productive maintenance program— Editorial October 75
Value of, May 86 Maintenance Reduced by Air Impact	April 98 New Applications of Prestressed Assem-	Promoting Sales Through Demonstration,
	April 98 New Applications of Prestressed Assembly of Masonry Units, July 109 New England—Economics—Rocky's	Proportioning-Concrete aggregates.
Maintenance supplies—Government regulations, April 95	Notes, September 49	Proving to Farmers That Liming Pays,
Manufacture of Pipe in Australia, Feb. 149	New Slag Plant of Flexible Design, Jan. 114	April
Manufactured sand -Becker County Sand and Gravel Co.,	Notes, September 49 New Slar Plant of Flexible Design, Jan. 114 New Two of Grindine Mill. February 93 New Wet Process Mill in Venezuela,	Public Centracts Act (see Walsh-Healey Public Contracts Act)
	Aupust	Public relations
-Hungry Horse dam. February 98 Marquette's Public Relations Program,	New Zealand—Handlin⊲ agricultural limestone, April 103	-Aggregates industries, January 118 -Aspects of atmospheric pollution.
August 136 Masonry Convention Anticipates Operat-	limestone, April 103 Nonmetallic Minerals in Northwest, July 88	lune 127
masonry Convention Anticipates Operat- ing Problems to Be Faced, March	North Hollywood Concrete Tile Co.— Plant. August 229	-Editorial
Masonry Industry Expands Throughout	Northern Concrete Products Co.	
Canada. March 151  Masonry Producers Look for Record  Year, December 155	Northwest Industrial Minerals Conference—4th annual meeting, July	-Land rehabilitation, January 110 -Marquette Cement Manufacturing
rear, December155	ence—4th annual meeting, July	Co.'s program, August136

Pulverizing Microsize, April 122 Pumice Block for New England Market, November 128
Pumice Block for New England Market, November
Push-Button Operated Gravel Plant, May 76
0
Quadrants-In rotary kilns
Quadrants—In rotary kilns, June
Ouerrying Moores Lime Co. Sentember 84
Quartzite
-Production for Ft. Randall dam, Oct 103
Quick Determination of Concrete Aggre-
-Production for Ft. Randall dam, Oct. 103 -Quarrying, October 197 Quick Determination of Concrete Aggregate Proportions, February 156
Radiation losses—Kilns, December 99 Railroad ballast—Gravel—Morrison- Knudsen Co., November 81 Ready-mixed concrete Hard facing equipment, June 185 Role of, January 151 - Role of, January 161 - Vermiculte aggregate, December 96 Ready-Mixed Concrete for Chicago area, December 159
Knudsen Co., November 81
Ready-mixed concrete
-Hard facing equipment, June
-Quality, December
-Vermiculite aggregate, December 96
December
December Ready-mixed concrete plants -Concrete Materials Co., October 107 -Elmhurst-Chicago Stone Co., October 118 -Escanaba Concrete Corp., November 131 -Genovese Coal & Mason's Material Co., February 152 -Hudson Builders Material Co., Aug. 230 -Imperial Ready-Mix Concrete Co. 159
-Elmhurat-Chicago Stone Co., October 118
-Escanaba Concrete Corp., November 131
Genovese Coal & Mason's Material
-Hudson Builders Material Co., Aug. 230
-Imperial Ready-Mix Concrete Co.,
-1. P. Loomis Coal & Supply Co., Aug. 225
-McHenry Sand & Gravel Co., June 184
Material Service Corp., July 112
-Wage and Hour Law coverage, Oct 79
Ready-Mixed Insulating Concrete, Feb 152
April
-Inusuin Ready-Mix Concrete Co., 159 -Imperial Ready-Mix Concrete Co., 159 -J. P. Loomis Coal & Supply Co., Aug. 225 -McHenry Sand & Gravel Co., June 184 -Material Service Corp., July 112 -Standard Building Material Co., Nov. 125 -Wage and Hour Law coverage. Oct. 79 Ready-Mixed Insulating Concrete, Feb. 152 Ready-Mix Producers Enlarge Activities, 7 April Regulations, government (see Government regulations) Regulations for Allocation of Maintenance, Repair and Operating Supplies, April Removing Debris from Sand and Gravel,
Regulations, government (see Govern-
Regulations for Allocation of Mainte-
nance, Repair and Operating Supplies,
Removing Debris from Sand and Gravel, December 110
December
Requirements for Ft. Kandali Dam, Oct 90 Requirements for Garrison Dam, Nov 72
Research-Directing and using, January 124
Research on Hydraulic Properties of
Ripley, Joseph M.—Concrete block plant,
Requirements for Ft. Randall Dam, Oct. 98 Requirements for Ft. Randall Dam, Oct. 98 Requirements for Garrison Dam, Nov. 72 Research — Directing and using, January. 124 Research on Hydraulic Properties of Granulated Blast Furnace Slag, July. 62 Ripley, Joseph M.—Concrete block plant. 132 Ripra.
-Concrete Materials Co. Sioux Falls, S. D., October 107 -Garrison dam Peter Kiewit Sons 83 -Co., November 83 -Production at Big Rock Stone & 174 Riprap Excavated from Surface Deposits, November 83
-Garrison dam-Peter Kiewit Sons'
-Production at Big Rock Stone &
Material Co., August
November 83
Rock products industries  -War program's impact on—Editorial.
-War program's impact on—Editorial,
- war program a impact on - Editoria.  February eve. January
Rockford Brikcrete Co.—Plant, May138
-When Scarcity of Aggregates Devel-
ops! January 65
ops! January  Rock (and Concrete) Making and  Disintegrating. February  "Progressive Discussion" for Better Concrete, March
-"Progressive Discussion" for Better
Concrete, March 57
Chemistry, April 75
Disintegrating February 69  "Progressive Discussion" for Better Concrete, March 57  Technical Details of Agricultural Chemistry, April 75  Crystallography for Study of Concrete, May 19  Crystallography for Study of Concrete, May 19  Stymied, June 19  Confused Chemistry of Portland Cement, July 19  Water—Thermally Incompatible Aggregate, August 19  Washington Economists Explore New England, September 10, 2011 Chem. 49
-How Necessary Legislation is
Stymied, June 81
ment. July 41
-Water-Thermally Incompatible Ag-
gregate, August 93
England. September
Recent Developments in Soil Chemistry, October 77
-Headed for Endless Inflation Con-
Recent Developments in Soil Chemistry October 177 Headed for Endless Inflation Controls November Surface Chemistry of Aggregates. December 177
Surface Chemistry of Aggregates, December
Rod mills
-Manufactured sand—Becker County Sand and Gravel Co., November 78
Use to sand plant
-Cae in sand plant,
October100
October 100 October 102
October 100 October 102 Rogers & Brunhoeffer—Crushed stone plant, December 102 Rotary kilns - Use of preheater, Aoril 117 -Use of quadrants, September 71 Round Mountain Gold Dredging Corp—Plant, July 56 Ruston Co., D. D.—Plant, May 76
October 100 October 102 Rogers & Brunhoeffer—Crushed atone plant. December 102 Rotary kilns 117 -Use of preheater. April 117 Round Mountain Gold Dredging Corp. Plant. July 56 Ruxton Co., D. D.—Plant. May 76
October 100 October 101 Rogers & Brunhoeffer—Crushed atone plant. December 102 Rotary kilns - Use of preheater. April 117 -Use of quadrants. September 71 Round Mountain Gold Dredging Corp. Plant. July 56 Ruxton Co., D. D.—Plant. May 76 S Safetv - Editorial. May 47
October 100 October 102 Rogers & Brunhoeffer—Crushed stone plant, December 102 Rotary kilns - Use of preheater, Aoril 117 -Use of quadrants, September 71 Round Mountain Gold Dredging Corp—Plant, July 56 Ruston Co., D. D.—Plant, May 76

Safety and sanitation-Public Contracts	
Safety and sanitation—Public Contracts Act, November Safety Experts Exchange Ideas, Nov. 10 Safety training—National Safety Congress, November 10 Sand—Production at Hallett Construction Co., October 10 Sand and gravel American Aggregates Corp.—History,	11
gress, November	1
Sand and gravel	00
Sand and gravel  -American Aggregates Corp.—History, January  -Pacific Coast Aggregates, Inc., Feb. 8  -Stanley Ferry Gravel Co., June. 9  Sand and gravel block—Shrinkage tests, September	12
-Stanley Ferry Gravel Co., June	8
September	8
September	0
-D. D. Ruxton Co., May	16
-Elmhurst-Chicago Stone Co., October 11 -Pacific Coast Aggregates, Inc.—Eliot	8
Concrete Materiale Co. Des Moines, Iowa, December I D. D. Ruxton Co. May — 10-Douglas County Gravel Co., Dec. 10 — 11 — 12 — 12 — 12 — 12 — 12 — 12 —	4
Sand and Gravel Producers Hold Suc-	16
Sand classifier—Hydraulic—Rising cur- rent, November 7	18
Sand classifier—Hydraulic—Rising cur- rent, November Sand manufacturing—Hungry Horse dam, February Sand Mortar Strengths Influenced Most by Grading, December Sand plants -Becker County Sand and Gravel Co. November -Consolidated Gravel Co. Inc. Oct. 18	8
Sand Mortar Strengths Influenced Most by Grading, December	16
-Becker County Sand and Gravel Co.	
-Becker County Sand and Gravel Co. November 7 -Consolidated Gravel Co., Inc., Oct., 18 -L. G. Everiat, Inc., Hawarden, Iowa, October 10 -Hallett Construction Co., October 10	0
October 10	2
Sand sizing—Hungry Horse dam, Feb 9 F. E. Schundler & Co.—Perlite mining	8
and processing. November 6 Scientific Use of Liming Materials, May 8	2
Screening—Crushed stone, March	9
Selection of V-Belt Drives for Best Per- formance, July 8	15
-L. G. Everist, Inc. Hawarden, Iowa, October October Hallett Construction Co. October October Hallett Construction Co. October	2
Selling Block Throughout Wide Area, July   175 Years in Business, April   9 Shale, expanded—Lightweight aggregate, June   60 September   9 Shattuck Denn Mining Corn Tailing	0
June	3
Shattuck Dean Mining Corp.—Tailing control. December	8
75 Years in Business, April 9 Shale, expanded—Lightweight aggregate, June 9 September 9 Shattuck Dean Mining Cerp.—Tailing control, December 1 J. L. Shiely Co., Inc.—Gravel plant, Nov. 7 Shrinkage—Concrete masonry, Sept. 12 Silica —National Industrial Sand Association	8
Silica	
-National Industrial Sand Association	
Director's meeting, December	2
Director's meeting, December	0 2
Director's meeting, December	0 2
Director's meeting, December	0 2
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 7 -Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Silica States — Conveyor handling, June 18 Sintering Clay into Lightweight Aggregate, Mar. 44 Sintering Clay into Lightweight Aggregates.	0 2
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 -Size classification with air—Clayton Size classification with air—Clayton Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Silo staves—Conveyor handling, June 18 Sintering—Lightweight aggregate, Mar. 14 Sintering Clay into Lightweight Aggregates, August 10	2 5 2 2 0 1 1 9
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 -Size classification with air—Clayton Size classification with air—Clayton Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Silo staves—Conveyor handling, June 18 Sintering—Lightweight aggregate, Mar. 14 Sintering Clay into Lightweight Aggregates, August 10	2 5 2 2 0 1 1 9
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 7 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Sizing - ClayStreight aggregate, Mar. 14 Sizing - Classification with air—Silica, Sept. 7 - Fine materials, July 6 - Sand—Rising curvent hydraulic classifier, November 7 Slackline cableway—Stanley Ferry	202 52201 59
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 7 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Sizing - ClayStreight aggregate, Mar. 14 Sizing - Classification with air—Silica, Sept. 7 - Fine materials, July 6 - Sand—Rising curvent hydraulic classifier, November 7 Slackline cableway—Stanley Ferry	202 52201 59
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 7 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Sizing - ClayStreight aggregate, Mar. 14 Sizing - Classification with air—Silica, Sept. 7 - Fine materials, July 6 - Sand—Rising curvent hydraulic classifier, November 7 Slackline cableway—Stanley Ferry	202 52201 59
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 7 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December 11 Sizing - ClayStreight aggregate, Mar. 14 Sizing - Classification with air—Silica, Sept. 7 - Fine materials, July 6 - Sand—Rising curvent hydraulic classifier, November 7 Slackline cableway—Stanley Ferry	202 52201 59
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 5 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December, 18 Silica Final Shop, 18 Silica Sept. 19 Silica Producers Silica, Sept. 7 - Fine materials, July 6 - Sand—Ralising current hydraulic classifier, November Slackline cableway—Stanley Ferry Gravel Co., June Silag Froducers Discuss Research and War Developments, July 5 Slag Producers Discuss Research and War Developments, January Silime removal—Phosphate, March 7 Slurry pumps and distributor, August 7 Slurry pumps and distributor,	202 52201 9 59 8 42 647
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 5 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December, 18 Silica Final Shop, 18 Silica Sept. 19 Silica Producers Silica, Sept. 7 - Fine materials, July 6 - Sand—Ralising current hydraulic classifier, November Slackline cableway—Stanley Ferry Gravel Co., June Silag Froducers Discuss Research and War Developments, July 5 Slag Producers Discuss Research and War Developments, January Silime removal—Phosphate, March 7 Slurry pumps and distributor, August 7 Slurry pumps and distributor,	202 52201 9 59 8 42 647
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May - 5 - Size classification with air—Clayton Silica Co., September Silica Producers Discuss Car Supply, May 7 Silica Producers Discuss Car Supply, May 7 Silica Producers Talk Shop, December, 18 Silica Final Shop, 18 Silica Sept. 19 Silica Producers Silica, Sept. 7 - Fine materials, July 6 - Sand—Ralising current hydraulic classifier, November Slackline cableway—Stanley Ferry Gravel Co., June Silag Froducers Discuss Research and War Developments, July 5 Slag Producers Discuss Research and War Developments, January Silime removal—Phosphate, March 7 Slurry pumps and distributor, August 7 Slurry pumps and distributor,	202 52201 9 59 8 42 647
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 -Size classification with air—Clayton 1 Silica Producers Diacuss Car Supply, May 7 Silica Producers Talk Shop, December 1 Silo Staves—Conveyor handling, June 1 Southeastern Regional Meeting of N.C.M.A., January 1 Silo Constituents—Lime interaction, June 1 Southeastern Regional Meeting of N.C.M.A., January 1 Silo Staves—Regional Meeting of N.C.M.A., January 1 Silo Staves—Regional Meeting of N.C.M.A., January 1 Southeastern Regional Meeting of N.C.M.A., January 1 Silo Staves—Silo Staves—Conversion—Lime 1 Southeastern Regional Meeting of N.C.M.A., January 1 Silo Staves—Silo S	202 52201 9 59 8 42 647
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 - Size classification with air—Clayton Silica Producers Discuss Car Supply, May 7 Sintering—Lightweight Aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, May 10 Sand—Rising current hydraulic classifier, November 7 Slackline cableway—Stanley Ferry Gravel Co., June 9 Slag Producers Discuss Research and War Developments, July 10 Slag Producers Discuss Research and War Developments, Ianuary 14 Sliurry pumps and distributor, August 12 Soil censervation—Liming, April 2 Soil conservation—Liming, April 2 Southeastern Regional Meeting of N.C.M.A., January 18 Specific Heat and Heat of Calcination, January 1	2 52201 9 59 8 8 42 647 778 22 7 22
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 - Size classification with air—Clayton Silica Producers Discuss Car Supply, May 7 Sintering—Lightweight Aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, May 10 Sand—Rising current hydraulic classifier, November 7 Slackline cableway—Stanley Ferry Gravel Co., June 9 Slag Producers Discuss Research and War Developments, July 10 Slag Producers Discuss Research and War Developments, Ianuary 14 Sliurry pumps and distributor, August 12 Soil censervation—Liming, April 2 Soil conservation—Liming, April 2 Southeastern Regional Meeting of N.C.M.A., January 18 Specific Heat and Heat of Calcination, January 1	2 52201 9 59 8 8 42 647 778 22 7 22
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 - Size classification with air—Clayton Silica Producers Discuss Car Supply, May 7 Sintering—Lightweight Aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, May 10 Sand—Rising current hydraulic classifier, November 7 Slackline cableway—Stanley Ferry Gravel Co., June 9 Slag Producers Discuss Research and War Developments, July 10 Slag Producers Discuss Research and War Developments, Ianuary 14 Sliurry pumps and distributor, August 12 Soil censervation—Liming, April 2 Soil conservation—Liming, April 2 Southeastern Regional Meeting of N.C.M.A., January 18 Specific Heat and Heat of Calcination, January 1	2 52201 9 59 8 8 42 647 778 22 7 22
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May -5 Size classification with air—Clayton Silica Co., September C., Supply, May 7 Silica Co., September C., Supply, May 7 Silica Poclucers Talk Shop, December 11 Silo staves—Conveyor handling, June 18 Sintering—Lightweight Shop, December 11 Silo staves—Conveyor handling, June 18 Sintering—Lightweight aggregate, Mar. 14 Sintering Clay into Lightweight Aggregate, May 14 Sintering Clay into Lightweight Aggregate, May 14 Sintering Clay into Lightweight Aggregate, May 14 Sizing —Classification with air—Silica, Sept 7 —Fine materials, July 6 —Sand—Rhising current hydraulic Sand—Rhising current hydraulic Fand Charley Co., June 9 Siag —Buffalo Slag Co., January 11 —Hydraulic properties, July 9 Siag Producers Discuss Research and War Developments, January 14 Hydraulic properties, July 5 Soil chemistry—Recent developments, Cotober 15 Soil conservation—Liming, April 5 Soil constituents—Lime interaction, June 12 Southeastern Regional Meeting of N.C.M.A., January 19 Specific Heat and Heat of Calcination, January 19 Specific Heat and Heat of Calcination, January 19 Spectra—Claze concrete block facing, 19 Spectra—Claz	2 52201 9 59 8 8 42 647 778 22 7 22
Director's meeting, December 11 15th annual meeting, July 6 Special meeting report, May 5 -Size classification with air—Clayton 7 Silica Producers Diacusa Car Supply, May 7 Silica Producers Diacusa Car Silica, Sept 7 - Fine materials, July 6 - Sand—Rising current hydraulic classifier, November 7 Slackline cableway—Stanley Ferry Gravel Co. June 9 Silica Diacusa Car Supply 10 Silica Car Supply 10 S	12 15 12 12 12 13 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15
Director's meeting, December	2 5 2 2 2 3 1 1 1 9 1 5 9 8 8 8 4 2 2 6 6 4 4 2 7 7 7 7 7 8 2 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3
Director's meeting, December	2 5 2 2 2 3 1 1 1 9 1 5 9 8 8 8 4 2 2 6 6 4 4 2 7 7 7 7 7 8 2 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3
Director's meeting, December	2 5 2 2 2 3 1 1 1 9 1 5 9 8 8 8 4 2 2 6 6 4 4 2 7 7 7 7 7 8 2 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3
Director's meeting, December	2 5 2 2 2 3 1 1 1 9 1 5 9 8 8 8 4 2 2 6 6 4 4 2 7 7 7 7 7 8 2 2 2 2 3 3 2 3 3 3 3 3 3 3 3 3 3 3 3
Director's meeting, December	2 15 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3 3 3 3
Director's meeting, December	2002 5222001 9 59 8 8 42 66 6747 7778 22 2 2 3 2 3 2 3 3 3 3 3 3 3 5 5 6 8 8 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

-In ready-mixed conquete plant, Aug230 Steel formwork, December
Stockpiles, ground Extensive use of, October
Answer to Low Cost Production, Oct118 Stone Industry Ontimistic for 1951.
March 82 Stope Mining of Limestone, January128
-In ready-mixed congete plant, Aug. 230 Steel formwork, December
Straight-line plants—Crushed stone, 19 March Straight-line plants—Crushed stone, 82 March Stratification of gases in kins, October 109 Stream pollution—Industry problems, 19 Stratification of gases in kins, October 109 Stratification of gases in
Strestcrete New applications, July 109 Stripping with 10-Cu. Yd. Dragline, May 79
Superior Building Units, Inc.—Plant, August Superior Concrete Products Co.—Curing
system, September
-Crushed stone, March 82 -Use in crushed stone plant, July 70 -Use in slag plant, January 114
Taft-Hartley Act (see Labor Management Relations Act)
Tailing control
-Industry problems, January 118 -Inspiration Consolidated Copper Co.,
-Inspiration Consolidated Copper Co. February
-Miami Copper Co., September 67 -Shattuck Denn Mining Corp., Dec. 118
gregate, September 94
from Washing Plants) Taxation—Aggregates industry—Edi-
torial, March 55 Taxation and cost accounting—Sand and
Tennessee Lightweight Aggregate Plant,
tion and Development of Kiln Effi-
Thermodynamics of Lime Manufacture— Part IV. Heat transfer rates guide to determining kiln length, February
Tobin Quarries, Inc.—Crushed stone
plant, October 105 Tools, air—Maintenance reduced by.
Ready-mixed concrete plants)
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May 64
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  U
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  U Union activities—Employer rights. Sept. 51 Union rights—Labor Relations Trends,
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, 43 Use of Concrete Test Data, February
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Use of Concrete Test Data, February. 153 Utah-Idaho Concrete Pie
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Use of Concrete Test Data, February. 153 Utah-Idaho Concrete Pie
Ready-mixed concrete plants)  Wenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, 43 Use of Concrete Test Data, February. 153 Utah-Idaho Concrete Pine Ce,—Manu- facture of centrifugally cast pipe, May 131  V.Beits—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February. 158 C. A. Venezolana de Cementos—Per- tigalete, Venezuelan Jant, August. 169
Ready-mixed concrete plants)  Wenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, 43 Use of Concrete Test Data, February. 153 Utah-Idaho Concrete Pine Ce,—Manu- facture of centrifugally cast pipe, May 131  V.Beits—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February. 158 C. A. Venezolana de Cementos—Per- tigalete, Venezuelan Jant, August. 169
Read-mixed concrete plants by the street of
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July See of Concrete Test Data, February. 153 Utah-Idaho Concrete Pine Ce,—Manu- facture of centrifugally cast pipe, May 131  V.Belts—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February 158 C. A. Venezolana de Cementos—Per- vermiculite enezuela plant, August 169 Vermiculite aggregate—Lightweight precast Jolanks, September 64 Vermiculite aggregate—Lightweight precast Jolanks, September 122 Vermiculite and September 152 Vermiculite Institute—Annual meeting.
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July See of Concrete Test Data, February. 153 Utah-Idaho Concrete Pine Ce,—Manu- facture of centrifugally cast pipe, May 131  V.Belts—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February 158 C. A. Venezolana de Cementos—Per- vermiculite enezuela plant, August 169 Vermiculite aggregate—Lightweight precast Jolanks, September 64 Vermiculite aggregate—Lightweight precast Jolanks, September 122 Vermiculite and September 152 Vermiculite Institute—Annual meeting.
Ready-mixed concrete plants) Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Lac of Concrete Test Data, February. 153 Utah-Idaho Concrete Pine Ce,—Manu- facture of centrifugally cast pipe, May 131  V.Belts—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February. 158 C. A. Venezolana de Cementos—Per- tigalete, Venezuela plant, August. 169 —Exoandine plant, December 96 —Mining—Zonolite Co. September 94 Vermiculite argregate—Lightweight precast planks, September 127 Vermiculite concrete—Ready-mixed. February 158 February 169 February 169 Vermiculite Producers Hold Annual 86 Wermiculite Producers Hold Annual 86
Ready-mixed concrete planta)  Wenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, 43 Use of Concrete Test Data, February, 153 Utah-Idaho Concrete Pine Ce,—Manu- facture of centrifugally cast pipe, May 131  V.Beits—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February 158 C. A. Venezolana de Cementos—Per- tigalete, Venezuela plant, August 169 Vermiculite Vermiculite argresate—Lightweight precast planks, September 127 Vermiculite concrete—Ready-mixed, February 152 Vermiculite Institute—Annual meeting, 86 Vermiculite Producers Hold Annual 86 Westens 191 W Wabash Valley Ready Mixed Concrete
Weaty-mixed concrete plants)  Wenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July  Union rights—Labor Relations Trends, July  Union rights—Labor Relations Trends, July  Value Technology  Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July  V-Belts—Selection, July  V-Belts—Selection, July  Vander Heyden, Inc.—Concrete masonry plant February  Cementos—Per- tigalete, Venezuela plant, August  169  Vermiculite —Exoandine plant, December
Read-united concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, 43 Use of Concrete Test Data, February. 153 Utah-Idaho Concrete Pine Co.—Manu- facture of centrifugally cast pipe, May 131  V.Belts—Selection, July 85 Vander Heyden, Inc.—Concrete masonry plant, February 158 C. A. Venezolana de Cementos—Per- tigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite Concrete Ready-mixed, February 152 Vermiculite Jones September 127 Vermiculite Concrete—Ready-mixed, February 152 Vermiculite Institute—Annual meeting, July 86  Wermiculite Producers Hold Annual Meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Walsh-Healey Public Contracts Act —Agricultural limeatone, November 79 Walsh-Healey Public Contracts Act —Agricultural limeatone, November 79
Read-mixed omixed plants and the second plants and the second plants and the second plants are second plants. The second plants are second plants are second plants are second plants are second plants. Sept. 51  Union activities—Employer rights, Sept. 51  Union activities—Employer rights, Sept. 51  Union rights—Labor Relations Trends, 43  Use of Concrete Test Data, February . 153  Utah-Idaho Concrete Pine Co.—Manusfacture of centrifugally cast pipe, May 131  V-Belts—Selection, July . 85  Vander Heyden, Inc.—Concrete masonry plant, February . 158  C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August . 169  Vermiculite expersate—Lightweight . 169  Vermiculite aggresste—Lightweight . 169  Vermiculite aggresste—Lightweight . 169  Vermiculite aggresste—Lightweight . 169  Vermiculite Institute—Annual meeting, July . 86  Vermiculite Institute—Annual meeting, July . 86  Vermiculite Institute—Annual meeting, July . 86  Vermiculite Producers Hold Annual . 86  Vermiculite Producers Hold Annual . 86  Websah Valley Ready Mised Concrete . 48  Association—Annual Meeting, May . 137  Wabash Valley Ready Mised Concrete . 49  Wabash Valley Ready Mised Concrete . 79  Walsh-Healey Public Contracts Act . 79  Walsh-Healey Nimes Contracts Act . 79  Walsh-Healey Nimes Contracts . 81  Hishway materials . November . 49
Read-mixed concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Concrete Test Data, February. 153 Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July 85 Vander Heyden, Jac.—Concrete masonry 158 C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite aggresate—Lightweight precast plants, September 152 Vermiculite lastitute—Annual meeting, July 86  Wermiculite loncrete—Readv-mixed, 152 Vermiculite loncrete—Readv-mixed, 152 Vermiculite Institute—Annual meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Waes stabilization 152 April 152 Labor Relations Trends April 152 April 152 April 152 Waes stabilization 154 April 154 April 155 April
Read-mixed concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Concrete Test Data, February. 153 Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July 85 Vander Heyden, Jac.—Concrete masonry 158 C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite aggresate—Lightweight precast plants, September 152 Vermiculite lastitute—Annual meeting, July 86  Wermiculite loncrete—Readv-mixed, 152 Vermiculite loncrete—Readv-mixed, 152 Vermiculite Institute—Annual meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Waes stabilization 152 April 152 Labor Relations Trends April 152 April 152 April 152 Waes stabilization 154 April 154 April 155 April
Read-mixed concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Concrete Test Data, February. 153 Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July 85 Vander Heyden, Jac.—Concrete masonry 158 C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite aggresate—Lightweight precast plants, September 152 Vermiculite lastitute—Annual meeting, July 86  Wermiculite loncrete—Readv-mixed, 152 Vermiculite loncrete—Readv-mixed, 152 Vermiculite Institute—Annual meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Waes stabilization 152 April 152 Labor Relations Trends April 152 April 152 April 152 Waes stabilization 154 April 154 April 155 April
Read-mixed concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Concrete Test Data, February. 153 Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July 85 Vander Heyden, Jac.—Concrete masonry 158 C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite aggresate—Lightweight precast plants, September 152 Vermiculite lastitute—Annual meeting, July 86  Wermiculite loncrete—Readv-mixed, 152 Vermiculite loncrete—Readv-mixed, 152 Vermiculite Institute—Annual meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Waes stabilization 152 April 152 Labor Relations Trends April 152 April 152 April 152 Waes stabilization 154 April 154 April 155 April
Read-mixed concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Concrete Test Data, February. 153 Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July 85 Vander Heyden, Jac.—Concrete masonry 158 C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite aggresate—Lightweight precast plants, September 152 Vermiculite lastitute—Annual meeting, July 86  Wermiculite loncrete—Readv-mixed, 152 Vermiculite loncrete—Readv-mixed, 152 Vermiculite Institute—Annual meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Waes stabilization 152 April 152 Labor Relations Trends April 152 April 152 April 152 Waes stabilization 154 April 154 April 155 April
Read-mixed concrete plants)  Twenty Thousand Tons of Stone Daily, May  Union activities—Employer rights, Sept. 51 Union rights—Labor Relations Trends, July Concrete Test Data, February. 153 Utah-Idaho Concrete Pire Co.—Manu- facture of centrifugally cast pipe, May 131  V-Belts—Selection, July 85 Vander Heyden, Jac.—Concrete masonry 158 C. A. Venezolana de Cementos—Pertigalete, Venezuela plant, August 169 Vermiculite —Exoanding plant, December 96 Vermiculite aggresate—Lightweight precast plants, September 152 Vermiculite lastitute—Annual meeting, July 86  Wermiculite loncrete—Readv-mixed, 152 Vermiculite loncrete—Readv-mixed, 152 Vermiculite Institute—Annual meeting, July 86  Webash Valley Ready Mixed Concrete Association—Annual Meeting, May 137 Waes stabilization 152 April 152 Labor Relations Trends April 152 April 152 April 152 Waes stabilization 154 April 154 April 155 April
Read-mixed oncrete plants   New   Ne